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Attorney's Docket No. 9023-21

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Sleva et al.

U.S. Patent No.: 7,037,268

Issued: May 2, 2006

Serial No.: 09/914,682

Filed: February 12, 2002

For: *Low Profile Acoustic Sensor Array and Sensors with Pleated Transmission Lines and Related Methods*

November 2, 2006

Commissioner for Patents

Attn: Certificate of Correction Branch

P.O. Box 1450

Alexandria, VA 22313-1450


**RESUBMITTAL OF REQUEST FOR CERTIFICATE OF CORRECTION**

Sir:

Attached is a copy of the first Request for a Certificate of Correction that was filed in the United States Patent and Trademark Office by the Applicant on July 25, 2006, to correct the printing errors of the U.S. Patent and Trademark Office for the above-identified patent. Also attached is a copy of the first Certificate of Correction issued in response to the request. Unfortunately, there are two printing errors in the first Certificate of Correction. Thus, this resubmittal of the original Request for the Certificate of Correction is made to correct the two noted errors in the first Certificate of Correction (the errors are hand marked on the copy of the first Certificate of Correction attached hereto).

Applicant respectfully requests that a second or a supplemental Certificate of Correction be issued to correct the noted printing errors.

Respectfully submitted,

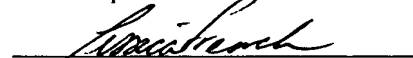
  
Julie H. Richardson  
Registration No. 40,142

**Certificate**  
9 8 2006  
**of Correction**

Myers Bigel Sibley & Sajovec  
Post Office Box 37428  
Raleigh, North Carolina 27627  
Telephone (919) 854-1400  
Facsimile (919) 854-1401

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on November 2, 2006.

  
Jessica French  
Date of Signature: November 2, 2006.

NOV 10 2006

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,037,268 B1  
APPLICATION NO. : 09/914682  
DATED : May 2, 2006  
INVENTOR(S) : Sleva et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6,

Line 8, after "and the third electrical trace of the first pliable" please insert  
-- material layer provides an electrical ground operably associated with the first and second conductive outer layers of the sensor. In a preferred embodiment, the acoustic sensor transmission line is configured with a series of undulations along its length.

Yet another aspect of the present invention is an acoustic sensor array, comprising a plurality of sensor elements having first and second outer surfaces. The first outer surface is configured to attached to a subject. The sensor array also includes a carrier member release-ably attached to the second outer surface of each of the plurality of sensor elements to hold the plurality of sensors in alignment. In operation, the carrier member is disengaged from the sensor elements after the sensor elements are attached to the subject. In one embodiment, the sensor elements are a set of discrete (structurally separate) sensor elements and the carrier member maintains positional alignment of the sensor elements for easier positioning onto a subject. Advantageously, the carrier member can also be used for other sensor configurations, and is particularly useful for resilient or compact flexural element configurations (such as the strip sensor embodiment described herein).

An additional aspect of the present invention is directed to a method of minimizing the mechanical interference between one or more or adjacent sensors and the end of the transmission line. For example, the method can minimize interference between adjacent sensors and system or environment mechanical forces which potentially can be input to the sensor by mechanically isolating flexure responsive acoustic sensor elements in arrays having a plurality of sensor elements. The method comprises the step of forming a series of undulations in a electrical transmission path to provide mechanical damping therealong. Preferably, the acoustic sensor array includes a plurality of sensor elements and a and a separate electrical transmission path for each of said sensor elements and the method further comprises the step of forming the sensor array such that the plurality of sensor elements and associated sensor electrical transmission paths are physically separate units.

Another aspect of the present invention is a method of forming an acoustic --

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Page 2 of 2

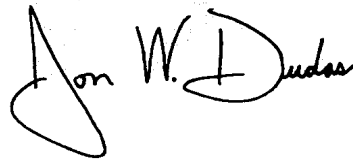
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 30,

Line 67 should read -- second ends and defining a length therebetween, a --

Signed and Sealed this

Tenth Day of October, 2006

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, sweeping initial "J" and a distinct "D".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*

NOV 10 2006

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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 DATED : May 2, 2006  
 INVENTOR(S) : Sleva et al.

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### Column 6.

Line 8, after "and the third electrical trace of the first pliable" please insert -- material layer provides an electrical ground operably associated with the first and second conductive outer layers of the sensor. In a preferred embodiment, the acoustic sensor transmission line is configured with a series of undulations along its length.

Yet another aspect of the present invention is an acoustic sensor array, comprising a plurality of sensor elements having first and second outer surfaces. The first outer surface is configured to attach to a subject. The sensor array also includes a carrier member release-ably attached to the second outer surface of each of the plurality of sensor elements to hold the plurality of sensors in alignment. In operation, the carrier member is disengaged from the sensor elements after the sensor elements are attached to the subject. In one embodiment, the sensor elements are a set of discrete (structurally separate) sensor elements and the carrier member maintains positional alignment of the sensor elements for easier positioning onto a subject. Advantageously, the carrier member can also be used for other sensor configurations, and is particularly useful for resilient or compact flexural element configurations (such as the strip sensor embodiment described herein).

An additional aspect of the present invention is directed to a method of minimizing the mechanical interference between one or more or adjacent sensors and the end of the transmission line. For example, the method can minimize interference between adjacent sensors and system or environment mechanical forces which potentially can be input to the sensor by mechanically isolating flexure responsive acoustic sensor elements in arrays having a plurality of sensor elements. The method comprises the step of forming a series of undulations in a electrical transmission path to provide mechanical damping therealong. Preferably, the acoustic sensor array includes a plurality of sensor elements and a separate electrical transmission path for each of said sensor elements and the method further comprises the step of forming the sensor array such that the plurality of sensor elements and associated sensor electrical transmission paths are physically separate units.

Another aspect of the present invention is a method of forming an acoustic --

### Column 30.

Line 67 should read -- second ends and defining a length therebetween, a --

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PATENT NO. 7,037,268

No. of additional copies: \_\_\_\_\_

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention, Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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